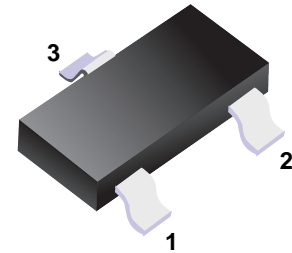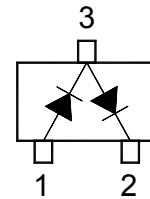# BAV199

■ Switching Diodes

■ Features
- Very low leakage current
- Medium speed switching times
- Series pair configuration
- Low leakage switching double diode
- For low leakage current applications


■ Simplified outline(SOT-23)

■ Marking

Marking	JY

■ Absolute Maximum Ratings Ta = 25℃

Parameter		Symbol	Value	Unit
Peak Repetitive Reverse Voltage		V_{RRM}	85	V
Continuous Reverse Voltage		V_R	85	V
Continuous Forward Current	Single Diode Double Diode	I_F	160 140	mA
Repetitive Peak Forward Current		I_{FRM}	500	mA
Non-Repetitive Peak Forward Surge Current	at t = 1 μs at t = 1 ms at t = 1 s	I_{FSM}	4 1 0.5	A
Power Dissipation		P_D	250	mW
Thermal Resistance Junction to Ambient Air		$R_{\theta JA}$	500	℃/W
Operating and Storage Temperature Range		T_j, T_{stg}	- 65 to + 150	℃

■ Electrical Characteristics Ta = 25℃

| Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage at I_R = 100 μA	$V_{(BR)R}$	85	-	-	V

Forward Voltage
  at I_F = 1 mA
  at I_F = 10 mA
  at I_F = 50 mA
  at I_F = 150 mA
	V_F	-
		-
		-
		-
			-
			-
			-
			-
				0.9
				1
				1.1
				1.25
					V

Reverse Current
  at V_R = 75 V
  at V_R = 75 V, T_j = 150 ℃
	I_R
	I_R
		-
		-
			-
			-
				5
				80
					nA

Total Capacitance at V_R = 0, f = 1 MHz	C_T	-	2	-	pF
Reverse Recovery Time at I_F = I_R = 10 mA, I_{rr} = 0.1 X I_R, R_L = 100 Ω	t_{rr}	-	-	3	μs
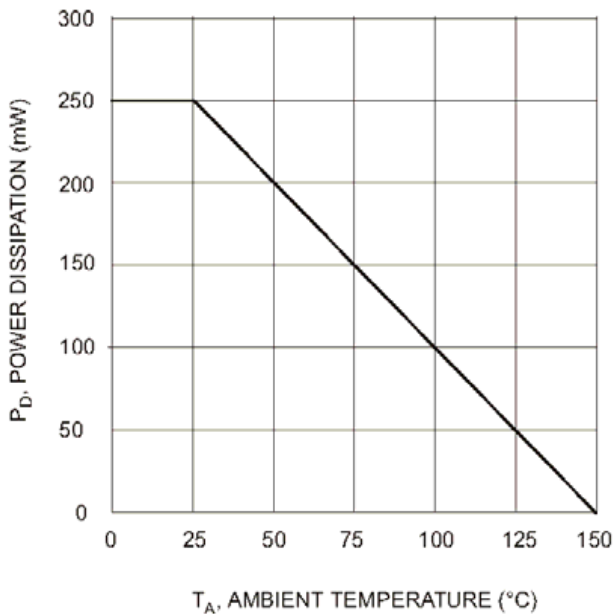
Fig. 1 Power Derating Curve
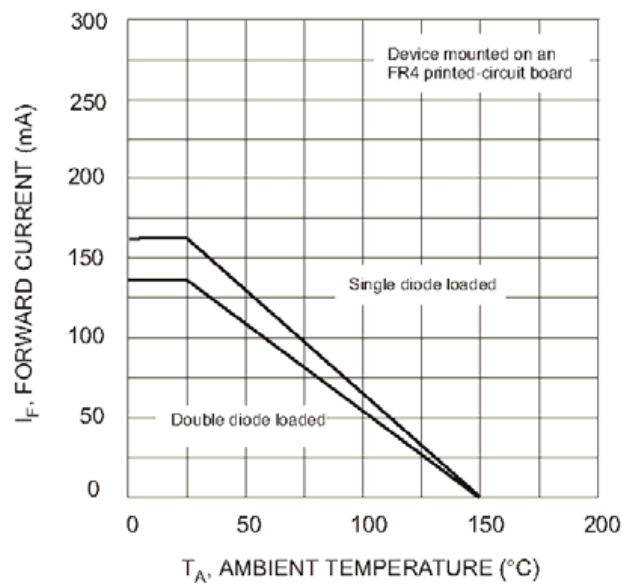
Fig. 2 Current Derating Curve
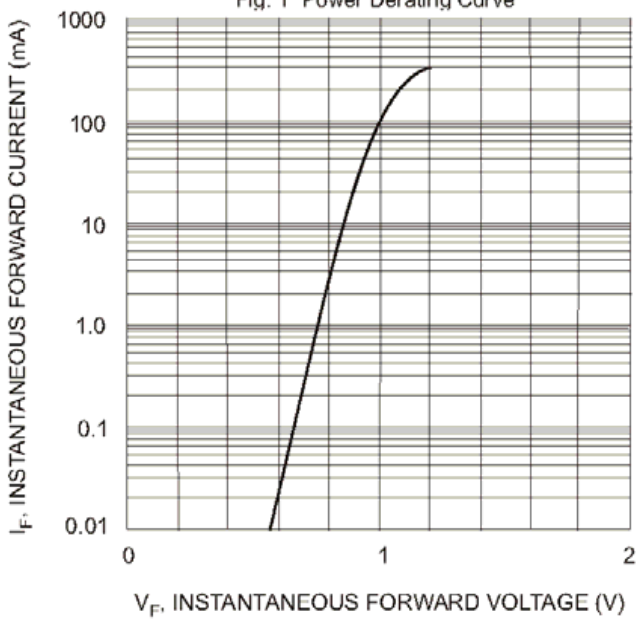
Fig. 3 Typical Forward Characteristics
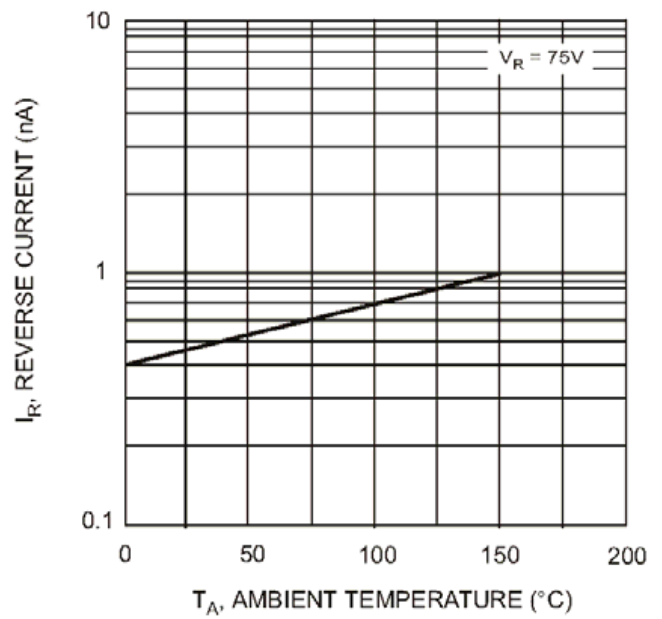
Fig. 4 Typical Reverse Characteristics

■ **SOT-23**


```
0          1          2 mm
|_____|_____|
         scale
```
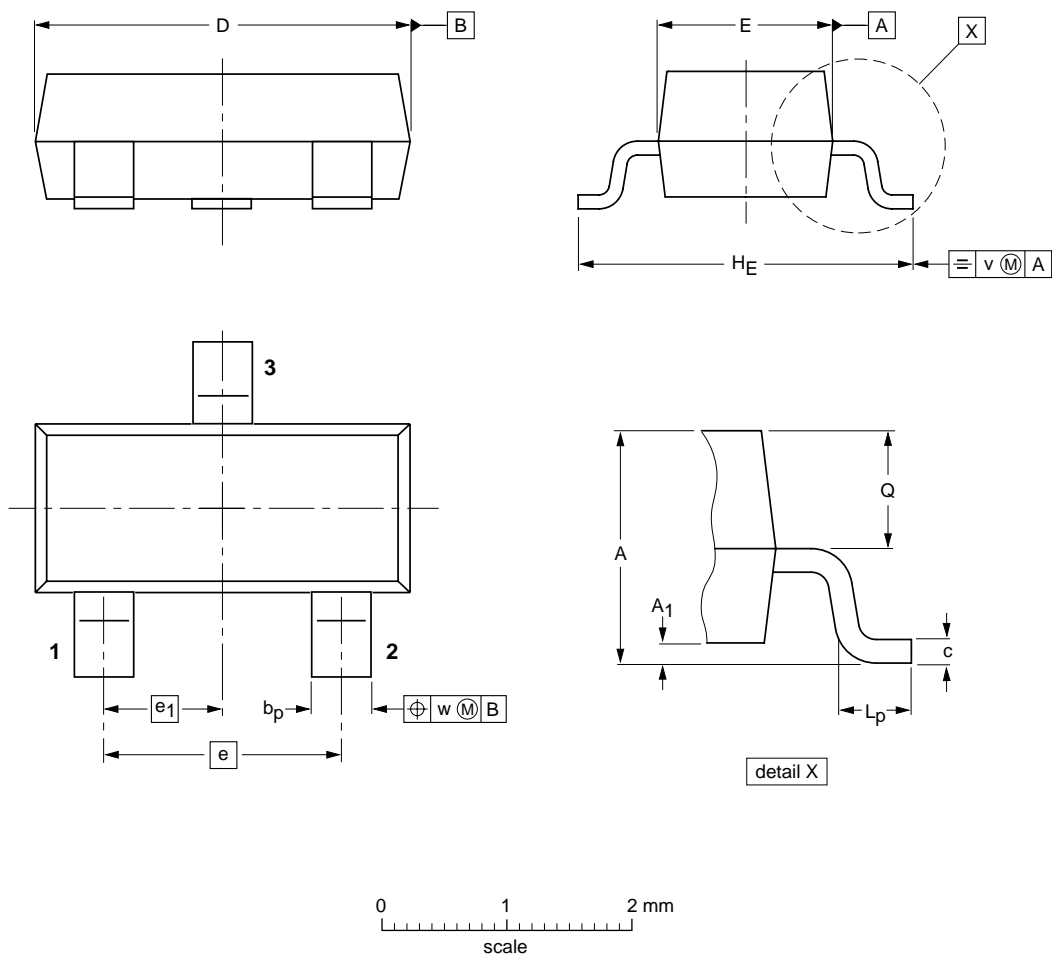
DIMENSIONS (mm are the original dimensions)

UNIT	A	A₁ max.	bp	c	D	E	e	e₁	HE	Lp	Q	v	w
mm	1.1 0.9	0.1	0.48 0.38	0.15 0.09	3.0 2.8	1.4 1.2	1.9	0.95	2.5 2.1	0.45 0.15	0.55 0.45	0.2	0.1

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